

FIG. 1

FIG. 3

FIG. 4

```
distributivity: (x + 4) %3 = (x %3 + 4 %3) %3 constant folding: = (x %3 + 1) %3 constant unfolding: = (x %3 + 1 %3) %3 invert distributivity: = (x + 1) %3 (a)

modulo expansion: (x+2) %3 = 3 - x %3 - (x+1) %3 (b)
```

FIG. 6

FIG. 7

FIG. 8

```
cseymod3 = -1;
for (y=0; y<M+3; ++y) {
  cseymin1mod3 = cseymod3;</pre>
  cseymod3 = y%3;
cseymin2mod3 = 3-cseymod3-cseymin1mod3;
   csexmod3x3=-3;
   cseymin1mod2 = (y-1)%2;
   cseymod2=1-cseymin1mod2;
   for (x=0; x<N+5; ++x) {
  csexmin1mod3x3 = csexmod3x3;</pre>
     csexmod3x3 = (x%3)*3;
     csexmin2mod3x3 = 9-csexmod3x3-csexmin1mod3x3;
     csexmin1x2 = (x-1)*2;
csexmin3x2 = csexmin1x2-4;
     if (x>=3 \&\& x<N+3 \&\& y>=2 \&\& y<M+2)
       tmparray[(csexmin3x2+ cseymod2)%160
                             + (csexmin3x2 + cseymod2)/160*256 + 96
         = comp_edge_pixels[csexmod3x3
                                   + cseymin2mod3] = maxdiff compute;
    = gauss_xy_pixels[csexmin1mod3x3
                                   + cseymin1mod3] = gauss_xy_compute;
} ...
```

```
cseymod3=-1;
for (y=0; y<M+3; ++y) {
    cseyminlmod3=cseymod3;
    cseymod3 ++;
    if(cseymod3 >= 3) { cseymod3 -= 3; }
    cseyminlmod3 = 3 - cseymod3-cseyminlmod3;
    cseyminlmod2 = (y-1)&I;
    cseymod2=1-cseyminlmod2;
    csexmod3x3= -3;
    csexx2dmod160_1_2=cseymod2-8;
    csexx2dmod160_1_2=cseymod2-8;
    csexx2div160_1_2=0;
    for (x=0; x<M+5; ++x) {
        csexminlmod3x3=csexmod3x3;
        csexmod3 ++;
        if(csexmod3 >= 3) { csexmod3 -= 3; }
        csexmod3x3=csexmod3x3;
        csexminlmod3x3 = 9-csexmod3x3-csexminlmod3x3;
        csexxinlmod3x3 = 9-csexmod3x3-csexxinlmod3x3;
        csexxinlm2c2 = (x-1)*2;
        csexminlx2 = (x-1)*2;
        csexminlx2 = (x-1)*2;
        csexminlx2 = (x-1)*2;
        csexminlx2 = (x-1)*2;
        csexxinlm2c3 = (x-1)*2;
        csexxinlm2c3 = (x-1)*2;
        csexxinlm2c3 = (x-1)*2;
        csexminlx2 = (x-1)*2;
        csexminlx2
```

FIG. 12

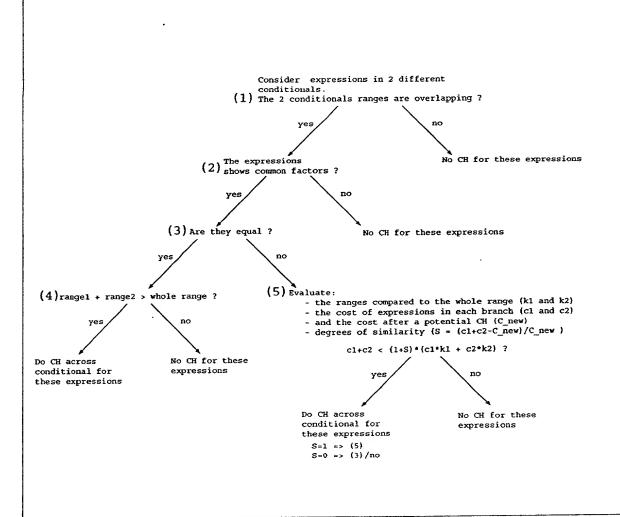


FIG. 13